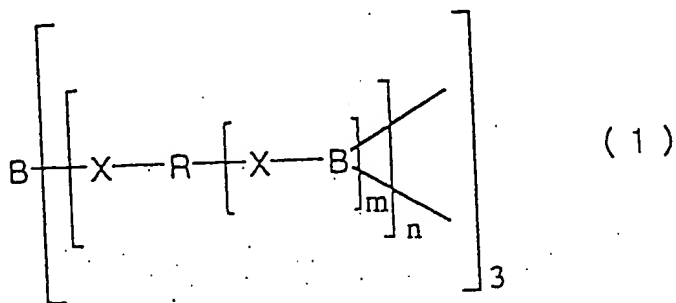


APPENDIX

PENDING CLAIMS WITH AMENDMENTS EFFECTED THEREIN

1. (Amended) An ion-conductive polymeric compound, [characterized in that] comprising one or more boron atoms [are present] in a polymeric structure.

2. (Amended) The ion-conductive polymeric compound according to claim 1[, characterized by] having being represented by the following general formula (1)[.]



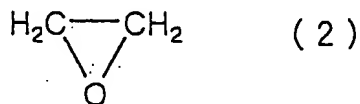
wherein X represents a hetero-atom, R represents a divalent to hexavalent group having a molecular weight of at least 150, m represents an integer of 1 to 5, and n represents a recurring number of 1 or more.

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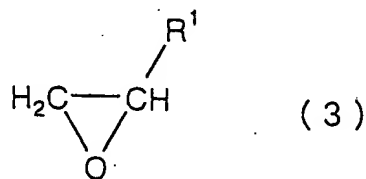
3. (Amended) The ion-conductive polymeric compound according to claim 1 or 2, [characterized in that] wherein the hetero-atom represented by X in general formula (1) is an oxygen atom.

4. (Amended) The ion-conductive polymeric compound according to [any one of claims 1 to 3, characterized in that] claim 1 or 2, wherein the group represented by R in general formula (1) is a polymer or a copolymer of compound (A) represented by the following formula (2) and/or compound (B) represented by the following formula (3)[.]

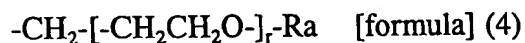
compound (A)



compound (B)



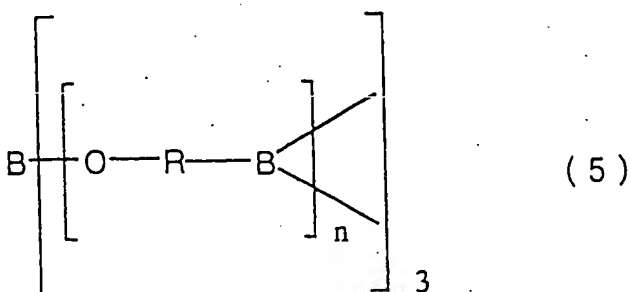
wherein R¹ represents a methyl group, an ethyl group, a propyl group, a butyl group or a group represented by the following formula (4)



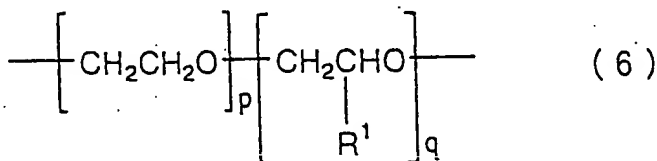
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wherein r represents 0 or an integer of 1 or more, and R_a represents a methyl group, an ethyl group, a propyl group or a butyl group.

5. (Amended) The ion-conductive polymeric compound according to [any one of claims 1 to 4, characterized by being represented by] claim 1 having the following general formula (5)[.]



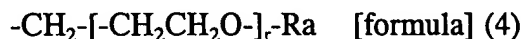
wherein R represents a divalent group having a molecular weight of at least 150, represented by the following formula (6), and n represents a recurring number of 1 or more[.]



wherein R^1 is a methyl group, an ethyl group, a propyl group, a butyl group or a group represented by the following formula (4), p

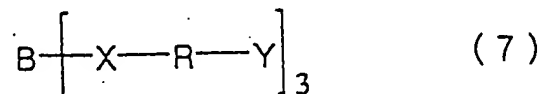
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represents an integer of 0 to 38,000, and q represents an integer of 0 to 28,000, provided p and q are not 0 at the same time[.]



wherein r represents 0 or an integer of 1 or more, and Ra represents a methyl group, an ethyl group, a propyl group or a butyl group.

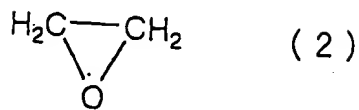
6. (Amended) The ion-conductive polymeric compound according to claim 1[, characterized by being] obtained by crosslinking a compound represented by the following general formula (7)[.]



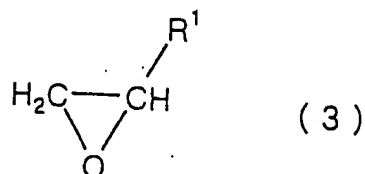
wherein X represents a hetero-atom, R represents a divalent group having a molecular weight of at least 150, and Y represents a polymerizable functional group.

7. (Amended) The ion-conductive polymeric compound according to claim 6, [characterized in that] wherein R in general formula (7) is a polymer or a copolymer of compound (A) represented by the following formula (2) and/or compound (B) represented by the following formula (3)[.]

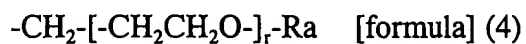
compound (A)



compound (B)

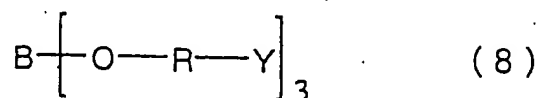


wherein R^1 represents a methyl group, an ethyl group, a propyl group, a butyl group or a group represented by the following formula (4)



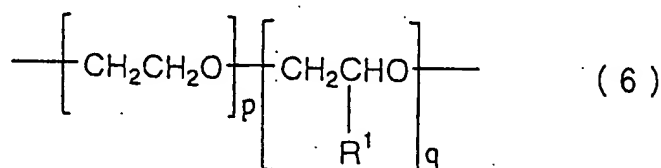
wherein r represents 0 or an integer of 1 or more, and Ra represents a methyl group, an ethyl group, a propyl group or a butyl group.

8. (Amended) The ion-conductive polymeric compound according to claim 6 or 7, [characterized in that] wherein the compound represented by general formula (7) is represented by the following general formula (8)[.]

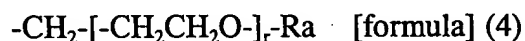


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wherein R represents a divalent group having a molecular weight of at least 150, represented by the following formula (6), and Y represents a polymerizable functional group[.]



wherein R¹ represents a methyl group, an ethyl group, a propyl group, a butyl group or a group represented by the following formula (4), p represents an integer of 0 to 38,000, and q represents an integer of 0 to 28,000, provided p and q are not 0 at the same time[.]



wherein r represents 0 or an integer of 1 or more, and Ra represents a methyl group, an ethyl group, a propyl group or a butyl group.

9. (Amended) The ion-conductive polymeric compound according to [any one of claims 6 to 8, characterized in that] claim 6 or 7, wherein the polymerizable functional group represented by Y is one or more selected from the group consisting of an acrylic residue, a methacrylic residue, an allyl group and a vinyl group.

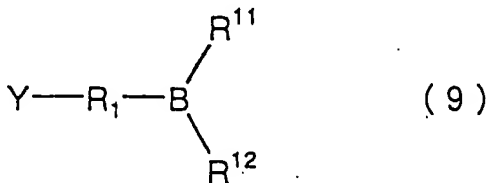
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10. (Amended) The ion-conductive polymeric compound according to claim 1, [characterized] in [that the] which a boron atom is [present] in a polymeric side chain.

11. (Amended) The ion-conductive polymeric compound according to claim 1, [characterized in that the] in which a boron atom is bound to an end of a polymeric main chain and/or a polymeric side chain as a part of a boron compound.

12. (Amended) The ion-conductive polymeric compound according to claim 10 or 11, [characterized in that the] in which a boron atom is bound to an end of a polymeric side chain as a part of [a] an organoboron compound.

13. (Amended) The ion-conductive polymeric compound according to [any one of claims 10 to 12, characterized by being] claim 10 or 11 obtained by polymerizing a mixture of compounds represented by the following formulas (9) and (10) respectively[.]



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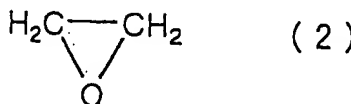
wherein R_1 represents a divalent group having a molecular weight of at least 100, Y represents a polymerizable functional group, and R^{11} and R^{12} , which may be the same or different, each represent a hydrogen atom, a halogen atom or a monovalent group, or R^{11} and R^{12} are bound to each other to form a ring[.]



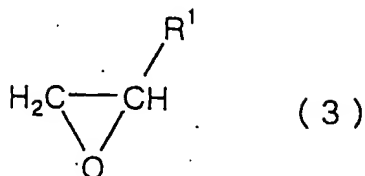
wherein R_2 represents a divalent group having a molecular weight of at least 150, Y represents a polymerizable functional group, Z represents an active hydrogen residue, and k represents an integer of 2 to 6.

14. (Amended) The ion-conductive polymeric compound according to claim 13, [characterized in that] wherein R_1 in general formula (9) and/or R_2 in general formula (10) is a polymer of compound (A) represented by the following formula (2) and/or compound (B) represented by the following formula (3)[.]

compound (A)



compound (B)

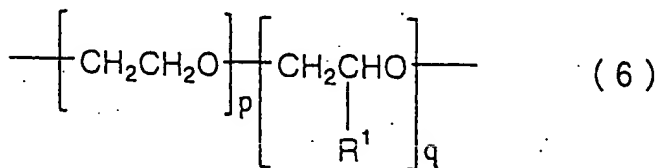


wherein R¹ represents a methyl group, an ethyl group, a propyl group, a butyl group or a group represented by the following formula (4)



wherein r represents 0 or an integer of 1 or more, and Ra represents a methyl group, an ethyl group, a propyl group or a butyl group.

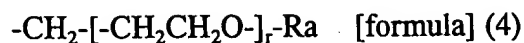
15. (Amended) The ion-conductive polymeric compound according to claim 13 [or 14], [characterized in that] wherein R1 in general formula (9) and/or R2 in general formula (10) is a divalent group represented by the following formula



wherein R¹ represents a methyl group, an ethyl group, a propyl group, a butyl group or a group represented by the following formula (4), p represents an integer of 0 to 38,000, and q represents

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an integer of 0 to 28,000, provided p and q are not 0 at the same time[.]



wherein r represents 0 or an integer of 1 or more, and Ra represents a methyl group, an ethyl group, a propyl group or a butyl group.

16. The ion-conductive polymeric compound according to [any one of claims 13 to 15, characterized in that] claim 13, wherein R^{11} and R^{12} in general formula (9) are one or more selected from the group consisting of an alkyl group, an aryl group, derivatives thereof and fluorine-substituted derivatives thereof.

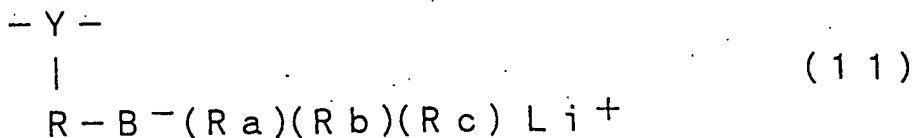
18. (Amended) A polymeric electrolyte comprising one or more [types] of the ion-conductive polymeric [compound] compounds according to any one of claims 1 [to 16], 2, 6, 7, 10 and 11.

19. (Amended) The polymeric electrolyte according to claim 18, [characterized by] further comprising a nonaqueous solvent.

20. (Amended) The polymeric electrolyte according to claim 19, [characterized in that] wherein the nonaqueous solvent is an aprotic solvent.

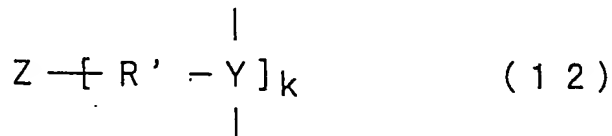
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22. (Amended) The polymeric electrolyte according to claim 21, [characterized in that] wherein the polymeric compound has a structural unit represented by the following general formula (11) in a molecule[.]



wherein Y represents a residue of a polymerizable functional group, R represents a group capable of being bound to the polymerizable functional group and the boron atom and having a molecular weight of at least 40, and Ra, Rb and Rc, which may be the same or different, each represent a group capable of being bound to the boron atom.

23. The polymeric electrolyte according to claim 22, [characterized in that] wherein the polymeric compound is a copolymer further having a structural unit represented by the following general formula (12)



wherein Y represents a residue of a polymerizable functional group, Z represents a residue of an active hydrogen compound, R'

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represents a divalent group having a molecular weight of at least 150, and k represents an integer of 2 to 6.

24. (Amended) The polymeric electrolyte according to [any one of claims] claim 21 [to 23], which further comprises an aprotic solvent.

25. (Amended) The polymeric electrolyte according to any one of claims 21 to [24] 23, which further comprises an electrolytic salt.

26. (Amended) The polymeric electrolyte according to claim [18 or] 25, [characterized in that] wherein the electrolytic salt is a lithium salt.

27. (Amended) The polymeric electrolyte according to claim 26, [characterized in that] wherein the lithium salt is one or more selected from the group consisting of LiBF_4 , LiPF_6 , LiClO_4 , LiAsF_6 , LiCF_3SO_3 , $\text{LiN}(\text{CF}_3\text{SO}_2)_2$, $\text{LiN}(\text{C}_2\text{F}_5\text{SO}_2)_2$, $\text{LiC}(\text{CF}_3\text{SO}_2)_3$, LiCl , LiF , LiBr , LiI , derivatives and thereof.

28. (Amended) The polymeric electrolyte according to claim 21 or 24, [characterized in that] wherein the aprotic solvent is one or more selected from the group consisting of carbonates, lactones, ethers, sulfolanes and dioxolanes.

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29. (Amended) An electric device [using] comprising the polymeric electrolyte according to [any one of claims 17 to 28] claim 18.

30. (Amended) A cell [in which] comprising a positive electrode [and], a negative electrode [are linked through] and the polymeric electrolyte according to [any one of claims 17 to 28] claim 18, said electrodes being linked through said electrolyte.

31. (Amended) The cell according to claim 30, [characterized in that] wherein the positive electrode is made of a double metal oxide capable of occluding and releasing lithium ions, and the negative electrode is made of a lithium metal, a lithium alloy or a compound capable of occluding and releasing lithium ions reversibly.